

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

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Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-19902-1

Client Project/Site: NPDES Permit MA0000833

For:

Exxon Global Remed. Grp

52 Beacham Street

Everett, Massachusetts 02149

Attn: Mr. Ernest E Haynes

Cathy Gartner

Authorized for release by:

2/22/2013 3:19:27 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-19902-1	Outfall 01C	Wastewater	02/19/13 09:51	02/20/13 08:20
490-19902-2	Outfall 01C-TSS-1	Wastewater	02/19/13 09:51	02/20/13 08:20
490-19902-5	Trip Blank	Water	02/19/13 09:51	02/20/13 08:20

Case Narrative

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Job ID: 490-19902-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-19902-1

Comments

No additional comments.

Receipt

The samples were received on 2/20/2013 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

HPLC

Method(s) 610: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 59907.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

General Chemistry

Method(s) SM 2540D: Batch 59933 is reported with one sample duplicate. The second is unavailable for reporting. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

No other analytical or quality issues were noted.

Organic Prep

Method(s) 1664A: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 60070 exceeded control limits for the following analytes: HEM

No other analytical or quality issues were noted.

Definitions/Glossary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Client Sample ID: Outfall 01C

Date Collected: 02/19/13 09:51

Date Received: 02/20/13 08:20

Lab Sample ID: 490-19902-1

Matrix: Wastewater

Method: 602 - Purgeable Aromatics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			02/21/13 14:24	1
Toluene	<0.330		1.00	0.330	ug/L			02/21/13 14:24	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			02/21/13 14:24	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			02/21/13 14:24	1
Methyl tert-butyl ether	4.14		1.00	0.460	ug/L			02/21/13 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150		02/21/13 14:24	1

Method: 610 - PAHs (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.170		1.00	0.170	ug/L		02/20/13 13:17	02/21/13 15:54	1
Acenaphthylene	<0.230		1.00	0.230	ug/L		02/20/13 13:17	02/21/13 15:54	1
Anthracene	<0.100		1.00	0.100	ug/L		02/20/13 13:17	02/21/13 15:54	1
Benzo[a]anthracene	<0.0200		0.200	0.0200	ug/L		02/20/13 13:17	02/21/13 15:54	1
Benzo[a]pyrene	<0.0200		0.100	0.0200	ug/L		02/20/13 13:17	02/21/13 15:54	1
Benzo[b]fluoranthene	<0.0200		0.100	0.0200	ug/L		02/20/13 13:17	02/21/13 15:54	1
Benzo[g,h,i]perylene	<0.0200		0.200	0.0200	ug/L		02/20/13 13:17	02/21/13 15:54	1
Benzo[k]fluoranthene	<0.0200		0.140	0.0200	ug/L		02/20/13 13:17	02/21/13 15:54	1
Chrysene	<0.0200		0.100	0.0200	ug/L		02/20/13 13:17	02/21/13 15:54	1
Dibenz(a,h)anthracene	<0.0300		0.200	0.0300	ug/L		02/20/13 13:17	02/21/13 15:54	1
Fluoranthene	<0.0300		0.200	0.0300	ug/L		02/20/13 13:17	02/21/13 15:54	1
Fluorene	<0.0400		0.500	0.0400	ug/L		02/20/13 13:17	02/21/13 15:54	1
Indeno[1,2,3-cd]pyrene	<0.0400		0.200	0.0400	ug/L		02/20/13 13:17	02/21/13 15:54	1
Naphthalene	<0.340		1.00	0.340	ug/L		02/20/13 13:17	02/21/13 15:54	1
Phenanthrene	<0.0500		0.500	0.0500	ug/L		02/20/13 13:17	02/21/13 15:54	1
Pyrene	<0.0300		0.200	0.0300	ug/L		02/20/13 13:17	02/21/13 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	62		25 - 135	02/20/13 13:17	02/21/13 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.27	*	3.62	1.27	mg/L		02/21/13 09:04	02/21/13 09:04	1

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Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Client Sample ID: Outfall 01C-TSS-1

Lab Sample ID: 490-19902-2

Date Collected: 02/19/13 09:51

Matrix: Wastewater

Date Received: 02/20/13 08:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.16		1.05	0.632	mg/L			02/21/13 13:59	1

Client Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Client Sample ID: Trip Blank

Date Collected: 02/19/13 09:51

Date Received: 02/20/13 08:20

Lab Sample ID: 490-19902-5

Matrix: Water

Method: 602 - Purgeable Aromatics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			02/21/13 13:52	1
Toluene	<0.330		1.00	0.330	ug/L			02/21/13 13:52	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			02/21/13 13:52	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			02/21/13 13:52	1
Methyl tert-butyl ether	<0.460		1.00	0.460	ug/L			02/21/13 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		50 - 150					02/21/13 13:52	1

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Method: 602 - Purgeable Aromatics (GC)

Lab Sample ID: MB 490-60073/11

Matrix: Water

Analysis Batch: 60073

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			02/21/13 13:19	1
Toluene	<0.330		1.00	0.330	ug/L			02/21/13 13:19	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			02/21/13 13:19	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			02/21/13 13:19	1
Methyl tert-butyl ether	<0.460		1.00	0.460	ug/L			02/21/13 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		02/21/13 13:19	1

Lab Sample ID: LCS 490-60073/5

Matrix: Water

Analysis Batch: 60073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.55		ug/L		98	39 - 150
Toluene	20.0	19.52		ug/L		98	46 - 148
Ethylbenzene	20.0	19.67		ug/L		98	32 - 160
Xylenes, Total	60.0	59.90		ug/L		100	66 - 136
Methyl tert-butyl ether	20.0	19.09		ug/L		95	56 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	90		50 - 150

Lab Sample ID: 460-51016-B-1 MS

Matrix: Water

Analysis Batch: 60073

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.360		20.0	19.54		ug/L		98	39 - 150
Toluene	<0.330		20.0	19.46		ug/L		97	46 - 148
Ethylbenzene	<0.370		20.0	19.88		ug/L		99	32 - 160
Xylenes, Total	<0.600		60.0	60.06		ug/L		100	66 - 136
Methyl tert-butyl ether	1.59		20.0	21.25		ug/L		98	56 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
a,a,a-Trifluorotoluene	87		50 - 150

Method: 610 - PAHs (HPLC)

Lab Sample ID: MB 490-59907/1-A

Matrix: Water

Analysis Batch: 60203

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.170		1.00	0.170	ug/L		02/20/13 13:17	02/21/13 14:38	1
Acenaphthylene	<0.230		1.00	0.230	ug/L		02/20/13 13:17	02/21/13 14:38	1
Anthracene	<0.100		1.00	0.100	ug/L		02/20/13 13:17	02/21/13 14:38	1

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QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Method: 610 - PAHs (HPLC) (Continued)

Lab Sample ID: MB 490-59907/1-A

Matrix: Water

Analysis Batch: 60203

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.0200		0.200	0.0200	ug/L		02/20/13 13:17	02/21/13 14:38	1
Benzo[a]pyrene	<0.0200		0.100	0.0200	ug/L		02/20/13 13:17	02/21/13 14:38	1
Benzo[b]fluoranthene	<0.0200		0.100	0.0200	ug/L		02/20/13 13:17	02/21/13 14:38	1
Benzo[g,h,i]perylene	<0.0200		0.200	0.0200	ug/L		02/20/13 13:17	02/21/13 14:38	1
Benzo[k]fluoranthene	<0.0200		0.140	0.0200	ug/L		02/20/13 13:17	02/21/13 14:38	1
Chrysene	<0.0200		0.100	0.0200	ug/L		02/20/13 13:17	02/21/13 14:38	1
Dibenz(a,h)anthracene	<0.0300		0.200	0.0300	ug/L		02/20/13 13:17	02/21/13 14:38	1
Fluoranthene	<0.0300		0.200	0.0300	ug/L		02/20/13 13:17	02/21/13 14:38	1
Fluorene	<0.0400		0.500	0.0400	ug/L		02/20/13 13:17	02/21/13 14:38	1
Indeno[1,2,3-cd]pyrene	<0.0400		0.200	0.0400	ug/L		02/20/13 13:17	02/21/13 14:38	1
Naphthalene	<0.340		1.00	0.340	ug/L		02/20/13 13:17	02/21/13 14:38	1
Phenanthrene	<0.0500		0.500	0.0500	ug/L		02/20/13 13:17	02/21/13 14:38	1
Pyrene	<0.0300		0.200	0.0300	ug/L		02/20/13 13:17	02/21/13 14:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	71		25 - 135	02/20/13 13:17	02/21/13 14:38	1

Lab Sample ID: LCS 490-59907/2-A

Matrix: Water

Analysis Batch: 60203

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.50	1.787		ug/L		71	1 - 124
Acenaphthylene	5.00	3.265		ug/L		65	1 - 139
Anthracene	2.50	1.949		ug/L		78	1 - 126
Benzo[a]anthracene	2.50	1.890		ug/L		76	12 - 135
Benzo[a]pyrene	2.50	1.893		ug/L		76	1 - 128
Benzo[b]fluoranthene	2.50	1.857		ug/L		74	6 - 150
Benzo[g,h,i]perylene	2.50	1.622		ug/L		65	1 - 116
Benzo[k]fluoranthene	2.50	1.853		ug/L		74	1 - 159
Chrysene	2.50	1.915		ug/L		77	1 - 199
Dibenz(a,h)anthracene	2.50	1.353		ug/L		54	1 - 110
Fluoranthene	2.50	1.903		ug/L		76	14 - 123
Fluorene	2.50	1.742		ug/L		70	1 - 142
Indeno[1,2,3-cd]pyrene	2.50	1.787		ug/L		71	1 - 116
Naphthalene	2.50	1.620		ug/L		65	1 - 122
Phenanthrene	2.50	1.853		ug/L		74	1 - 155
Pyrene	2.50	1.982		ug/L		79	1 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	77		25 - 135

Lab Sample ID: LCSD 490-59907/3-A

Matrix: Water

Analysis Batch: 60203

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	2.50	2.192		ug/L		88	1 - 124	20	50

TestAmerica Nashville

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Method: 610 - PAHs (HPLC) (Continued)

Lab Sample ID: LCSD 490-59907/3-A

Matrix: Water

Analysis Batch: 60203

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	5.00	3.906		ug/L		78	1 - 139	16	50
Anthracene	2.50	2.225		ug/L		89	1 - 126	13	50
Benzo[a]anthracene	2.50	2.142		ug/L		86	12 - 135	12	50
Benzo[a]pyrene	2.50	2.171		ug/L		87	1 - 128	14	50
Benzo[b]fluoranthene	2.50	2.169		ug/L		87	6 - 150	15	50
Benzo[g,h,i]perylene	2.50	1.974		ug/L		79	1 - 116	22	50
Benzo[k]fluoranthene	2.50	2.097		ug/L		84	1 - 159	13	50
Chrysene	2.50	2.181		ug/L		87	1 - 199	13	50
Dibenz(a,h)anthracene	2.50	1.645		ug/L		66	1 - 110	21	50
Fluoranthene	2.50	2.141		ug/L		86	14 - 123	12	50
Fluorene	2.50	2.044		ug/L		82	1 - 142	16	50
Indeno[1,2,3-cd]pyrene	2.50	2.036		ug/L		81	1 - 116	14	50
Naphthalene	2.50	1.929		ug/L		77	1 - 122	17	50
Phenanthrene	2.50	2.123		ug/L		85	1 - 155	14	50
Pyrene	2.50	2.242		ug/L		90	1 - 140	12	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	88		25 - 135

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-60066/1-A

Matrix: Water

Analysis Batch: 60070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.40		4.00	1.40	mg/L		02/21/13 09:04	02/21/13 09:04	1

Lab Sample ID: LCS 490-60066/2-A

Matrix: Water

Analysis Batch: 60070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	41.7	39.69		mg/L		95	78 - 114

Lab Sample ID: LCSD 490-60066/3-A

Matrix: Water

Analysis Batch: 60070

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60066

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oil & Grease (HEM)	41.7	32.81	*	mg/L		79	78 - 114	19	18

Lab Sample ID: 490-19561-Q-1-A MS

Matrix: Water

Analysis Batch: 60070

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 60066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	<1.60	*	47.1	41.76		mg/L		89	78 - 114

TestAmerica Nashville

QC Sample Results

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-59933/1
Matrix: Water
Analysis Batch: 59933

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.600		1.00	0.600	mg/L			02/21/13 13:59	1

Lab Sample ID: LCS 490-59933/2
Matrix: Water
Analysis Batch: 59933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	101	102.5		mg/L		102	90 - 110

Lab Sample ID: 490-19904-K-1 DU
Matrix: Water
Analysis Batch: 59933

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	1.50		<0.600		mg/L		NC	20

QC Association Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

GC VOA

Analysis Batch: 60073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-51016-B-1 MS	Matrix Spike	Total/NA	Water	602	
490-19902-1	Outfall 01C	Total/NA	Wastewater	602	
490-19902-5	Trip Blank	Total/NA	Water	602	
LCS 490-60073/5	Lab Control Sample	Total/NA	Water	602	
MB 490-60073/11	Method Blank	Total/NA	Water	602	

HPLC/IC

Prep Batch: 59907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-19902-1	Outfall 01C	Total/NA	Wastewater	610	
LCS 490-59907/2-A	Lab Control Sample	Total/NA	Water	610	
LCSD 490-59907/3-A	Lab Control Sample Dup	Total/NA	Water	610	
MB 490-59907/1-A	Method Blank	Total/NA	Water	610	

Analysis Batch: 60203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-19902-1	Outfall 01C	Total/NA	Wastewater	610	59907
LCS 490-59907/2-A	Lab Control Sample	Total/NA	Water	610	59907
LCSD 490-59907/3-A	Lab Control Sample Dup	Total/NA	Water	610	59907
MB 490-59907/1-A	Method Blank	Total/NA	Water	610	59907

General Chemistry

Analysis Batch: 59933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-19902-2	Outfall 01C-TSS-1	Total/NA	Wastewater	SM 2540D	
490-19904-K-1 DU	Duplicate	Total/NA	Water	SM 2540D	
LCS 490-59933/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-59933/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 60066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-19561-Q-1-A MS	Matrix Spike	Total/NA	Water	1664A	
490-19902-1	Outfall 01C	Total/NA	Wastewater	1664A	
LCS 490-60066/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-60066/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-60066/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 60070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-19561-Q-1-A MS	Matrix Spike	Total/NA	Water	1664A	60066
490-19902-1	Outfall 01C	Total/NA	Wastewater	1664A	60066
LCS 490-60066/2-A	Lab Control Sample	Total/NA	Water	1664A	60066
LCSD 490-60066/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	60066
MB 490-60066/1-A	Method Blank	Total/NA	Water	1664A	60066

TestAmerica Nashville

Lab Chronicle

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Client Sample ID: Outfall 01C

Date Collected: 02/19/13 09:51

Date Received: 02/20/13 08:20

Lab Sample ID: 490-19902-1

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	602		1	60073	02/21/13 14:24	GM	TAL NSH
Total/NA	Prep	610			59907	02/20/13 13:17	AL	TAL NSH
Total/NA	Analysis	610		1	60203	02/21/13 15:54	HT	TAL NSH
Total/NA	Analysis	1664A		1	60070	02/21/13 09:04	BD	TAL NSH
Total/NA	Prep	1664A			60066	02/21/13 09:04	BD	TAL NSH

Client Sample ID: Outfall 01C-TSS-1

Date Collected: 02/19/13 09:51

Date Received: 02/20/13 08:20

Lab Sample ID: 490-19902-2

Matrix: Wastewater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	59933	02/21/13 13:59	NH	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 02/19/13 09:51

Date Received: 02/20/13 08:20

Lab Sample ID: 490-19902-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	602		1	60073	02/21/13 13:52	GM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Method	Method Description	Protocol	Laboratory
602	Purgeable Aromatics (GC)	40CFR136A	TAL NSH
610	PAHs (HPLC)	40CFR136A	TAL NSH
1664A	HEM and SGT-HEM	1664A	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Exxon Global Remed. Grp
Project/Site: NPDES Permit MA0000833

TestAmerica Job ID: 490-19902-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

TestAmerica Nashville



COOLER RECEIPT FORM

Cooler Received/Opened On 2/20/2013 @ 0820

1. Tracking # 1131 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 2.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO...NA

If yes, how many and where: one front

5. Were the seals intact, signed, and dated correctly? YES NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO...NA

12. Did all container labels and tags agree with custody papers? YES NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) W

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES NO...NA

18. Did you sign the custody papers in the appropriate place? YES NO...NA

19. Were correct containers used for the analysis requested? YES NO...NA

20. Was sufficient amount of sample sent in each container? YES NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W


I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO # _____

TA Account #:

Regulatory District (CA) _____

pl. 6667.4 temp. 18°C.

	ExxonMobil Everett Terminal NPDES Permit Compliance & Sampling Procedure	Revision Number: 2
	NPDES Permit #MA0000833	Revision Date: 3-22-12
	Prepared by: EMPCo	Endorsed by:
		Procedure Effective Date: 1-1-12

Appendix E

Required MLs for Samples from Outfalls O1A and O1C to Accompany Chain of Custody

Polycyclic Aromatic Hydrocarbons

Group I	Permit Required Minimum Level for Analysis, ug/L
Benzo(a)anthracene	<0.05
Benzo(a)pyrene	<0.05
Benzo(b)fluoranthene	<0.05
Benzo(k)fluoranthene	<0.05
Chrysene	<0.5
Dibenzo(a,h)anthracene	<0.10
Indeno(1,2,3-cd)pyrene	<0.10
Group II	Permit Required Minimum Level for Analysis, ug/L
Acenaphthene	<5.00
Acenaphthylene	<5.00
Anthracene	<2.0
Benzo(ghi)perylene	<0.2
Fluoranthene	<0.50
Fluorene	<0.5
Naphthalene	<5.00
Phenanthrene	<2.00
Pyrene	<1.00
Other	Permit Required Minimum Level for Analysis, ug/L
Available Cyanide	< 2.00
Total Mercury (Hg)	< 2.00
Methyl Tertiary-Butyl Ether (MTBE)	< 5.00

Login Sample Receipt Checklist

Client: Exxon Global Remed. Grp

Job Number: 490-19902-1

Login Number: 19902

List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	